Enrollment No:	Exam Seat No:

C.U.SHAH UNIVERSITY

Summer Examination-2016

Subject Code: 4TE05MPR1 Branch:B.Tech (Auto,Mech)

Semester: 5 Date :02/05/2016 Time : 2:30 To 5:30 Marks : 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Subject Name: Manufacturing Processes - II

Q-1 Attempt the following questions:

14

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- a) Define manufacturing processes.
- **b)** What is draft allowance?
- c) What is function of core print?
- **d)** Give the name of different flames used in welding process
- e) What is straight polarity?
- **f)** Define the metal working process.
- g) Which forging operation is used for produce head of the bolt?
- **h)** Define polymerization.
- i) Give the applications of injection moulding.
- j) Define micromachining.
- k) Define MEMS process.
- 1) Give any five names of welding defects.
- **m**) Give the composition of acetylene
- **n**) Give the applications of impact extrusion.

Attempt any four questions from Q-2 to Q-8

Q-2 Attempt all questions

- a) Enlist the different manufacturing processes and give the three examples of each.
 b) Define pattern. Explain any two.
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- c) Write advantages and dis advantages of metal pattern over wood pattern.

Q-3 Attempt all questions

a) What is die casting? Explain it's types in detail with neat sketch
b) Enlist properties of sand used in casting and explain in detail.
07
07



Q-4		Attempt all questions	
	a)	Write a short note on oxy acetylene welding.	04
	b)	What is the principle of arc welding? Explain submerged arc welding with neat sketch	05
	c)	Enlist the different resistant weldings. Explain seam welding with neat sketch.	05
Q-5		Attempt all questions	
	a)	Write the name of different welding defects. Explain any five.	07
	b)	Explain soldering process. Give it's applications, advantages and disadvantages.	07
Q-6		Attempt all questions	
	a)	Write a short note on rolling process with a neat sketch.	04
	b)	Differentiate between hot working and cold working process.	05
	c)	Explain briefly with neat sketch the process of wire drawing.	05
Q-7		Attempt all questions	
	a)	What types of items are manufactures by the extrusion process? How does extrusion differ from injection moulding	07
	b)	Name common thermoplastic and common thermosetting plastics and give their uses.	07
Q-8		Attempt all questions	
	a)	Discuss fabrication of microelectronic process.	07
	b)	Explain LIGA process with neat sketch & write its applications.	07

